

PATENT ABSTRACTS OF JAPAN

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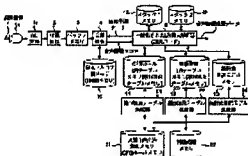
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(54) CONTINUOUS SPEECH RECOGNITION DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To make it possible to reduce a processing time and improve a recognition rate.

SOLUTION: Phoneme collation part 4 recognizes phoneme referring to HMM (hidden Markov model) based on a speech signal of vocalized speech sentence of a free utterance inputted, and a generalized LR parsing part 5 (GLR parser) analyzes the sentence structure and recognizes the above-mentioned vocalized speech sentence in the speech referring to a first LR parsing table generated based on CFG rule (context-free grammar rule), a second LR parsing table generated based on vocabulary rule, and a statistical language model including a bigram of the previous terminal symbol which is the last symbol but one showing a terminal element when the vocalized speech sentence is re-written according to the rule generated based on the CFG rule. The parser GLR 5 calculates a likelihood score for the speech recognition based on a sound score based on HMM and a language score based on the 1st and 2nd LR parsing tables and a statistical language model, and determines the speech recognition result by beam search by using a threshold value.



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